FEDERAL GRANT OPPORTUNITIES

updated 07/24/09

new opportunities or changes highlighted

Open grants & deadlines:

- **Wind Energy Consortia between Institutions of Higher Learning & Industry (Wind & Hydropower Technologies Program)** *(June 29, July 29)*
- **Large Wind Turbine Drivetrain Testing Facility** *(July 15, August 6)*
- **Geothermal Technologies Program: Ground Source Heat Pumps** *(July 16 & August 6)*
- **Smart Grid Investment Grant Program** *(July 16, August 8; October 23, November 4; February 10, March 3)*
- **Hydroelectric Facility Modernization** *(July 22, August 20)*
- **Clean Coal Power Initiative – Round 3** *(July 24, August 24)*
- **Solar Market Transformation – Solar Workforce Development** *(July 30)*
- **High Penetration Solar Deployment** *(July 30)*
- **Enhanced Geothermal Systems (EGS) Demonstration** *(July 30)*
- **Rural Energy for America Program/Renewable Energy Systems/Energy Efficiency Improvement Program** *(July 31)*
- **Renewable Energy Feasibility Grants** *(July 31)*
- **Carbon Capture & Sequestration from Industrial Sources & Innovative Concepts for Beneficial CO_2** *(August 7)*
- **Solid-State Lighting Core – Round VI** *(August 10)*
- **Geologic Sequestration Training & Research** *(August 11)*
- **Resource Assessment & Interconnection Level Transmission Analysis & Planning** *(August 14)*
- **Advancing Public Health Protection through Water Infrastructure Sustainability** *(August 17)*
- **Solid State Lighting Product Development – Round IV** *(August 17)*
- **Advanced Energy Efficient Building Technologies** *(August 18)*
- **Solid State Lighting U.S. Manufacturing – Round I** *(August 24)*

- **Building America Energy Efficient Housing Partnerships** *(August 24)*
- **Topical Collaborations in Nuclear Theory** *(September 1)*
- **Training Program Development for Commercial Building Equipment Technicians, Building Operators, and Energy Commissioning Agents/Auditors** *(September 1)*
- **Community Renewable Energy Deployment** *(September 3)*
- **Energy Training Partnership Grants** *(September 4)*
- **Systems Level Technology Development, Integration, & Demonstration for Efficient Class 8 Trucks (SuperTruck) and Advanced Technology Powertrains for Light-Duty Vehicles (ATP-LD)** *(September 9)*
- **Development of Algal/Advanced Biofuels Consortia** *(September 14)*
- **Pathways Out of Poverty** *(September 29)*
- **Local Energy Assurance Planning (LEAP) Initiative** *(October 8)*
- **Green Your School** *(October 9)*
- **Solar America Cities Technical Outreach** *(October 15)*
- **Baseload Concentrating Solar Power Generation** *(October 15)*

ARRA – Wind Energy Consortia between Institutions of Higher Learning & Industry (Wind and Hydropower Technologies Program)

FOA # DE-FOA-0000090

- Letter of intent due June 29, 2009
- Application due July 29, 2009
- Mission: "Responsible stewardship of national resources to increase the development and deployment of reliable, affordable, and environmentally sustainable wind and water power and realize the benefits of domestic renewable energy production"
- $24 million available; $12 million available for 1st year of funding
- $8 million floor; $12 million ceiling
- 10% cost share required
- 2 year period of performance
- Eligible applicants: Consortia led by institution of higher learning
    - Must include at least one four-year institution that has at least one engineering program accredited by ABET
    - Turbine location must have Power Class 3 at 50 meters and above wind resources and be within 50 miles of university
- Additional information at http://www.fedconnect.net/

- *2 areas, but not separate topics*
    1. Partnerships for Wind Research and Turbine Reliability
        - Universities in Power Class 3 at 50 meters or greater wind region with consistent wind resources throughout year are encouraged to team with industry partners to establish facilities/equipment and research agenda necessary to study major challenges facing the wind industry
        - Address 1 or more challenges in 20% Wind Energy by 2030 report and describe how wind hardware and software will be acquired
        - Research in turbine reliability is encouraged
    2. Wind Energy Research & Development
        - University research & development to advance material design, performance measurements, analytical models, and leveraging partnership with industry to improve power systems operations, maintenance or repair operations, wind turbine and/or component manufacturing, and interdisciplinary system integration
        - Universities encouraged to partner with wind industry in defining R&D agenda, curriculum, and intern partnership

ARRA – Large Wind Turbine Drivetrain Testing Facility

Funding Opportunity Announcement # DE-FOA-0000112

- Notice of Intent due by July 15, 2009
- Application due by August 6, 2009
- Grant for the design and construction of a large dynamometer facility for testing 5 to 15 MW rated drivetrains
- Facility can be a new system or a modification of an existing building suitable for a dynamometer test stand
- DOE envisions the facility will have space for permanent staff, visitors, conference rooms, a lunch room, restrooms, and computer stations
- Applicants must submit detailed multi-phase plans, including concept designs, preliminary designs, engineering procurement, construction contract management, and operation maintenance
- Eligible applicants
    - Primary applicant must be a state or local government, university, or non-profit
    - Must include organizational participants from the state and a university
    - Industry involvement is not required, but allowed
    - Potential end-users of the facility may not partner (conflict of interest)
- Applicants must demonstrate capabilities and experience in:
    - Drivetrain testing
    - Business management and operation of industrial facilities
    - The ability to develop a self-sustaining, end-user facility for benefit of the nation
- Consideration will be given to the facility's geographic location relative to sea ports and rail access
- DOE anticipates awarding a single $45 million grant
- Cost share of 35% of total project cost, or 25% with justification from the applicant
- Period of performance of five years, with DOE share spent within three years
- Visit http://www.fedconnect.net/ for additional information

ARRA – Geothermal Technologies Program: Ground Source Heat Pumps (GHP)

Funding Opportunity Announcement # DE-FOA-0000116

- Notice of Intent due by July 16, 2009
- Application due date: August 6, 2009
- $50 million available
- See http://www.fedconnect.net/ for additional information
- Greater consideration will be given to applicants with more aggressive completion schedules, that create more jobs, that have a greater cost share, and show cooperation between industry, education, and/or Indian tribes
- Eligible applicants: State and local governments, higher education, non-profits, for-profit private entities, Indian Tribes, and Tribal Energy Resource Development organizations or groups

- *Area 1: Technology Demonstration Projects*
  - Ceiling of $5 million
  - Minimum cost share of 50%
  - Up to 10 awards
  - Performance period of 5 years
  - For mid- to large-scale (50-100 tons heating and/or cooling) cost-shared technology demonstration projects that incorporate innovative business and financing strategies and/or technical approaches designed to overcome commercialization barriers that exist for GHPs
  - Includes data gathering and analysis

- *Area 2: Data Gathering & Analysis*
  - Ceiling of $250,000
  - Minimum cost share of 20%
  - Up to 8 awards
  - Performance period of 1 year
  - For research papers related to system costs, performance, and installation techniques which will provide insights into lowest life-cycle cost applications for GHPs and assist customers in determining project feasibility
  - Should collaborate with industry, academia, and National Laboratory partners
  - Should model system performance and cost benefits for system design and applications for small residential to large heating systems

- *Area 3: National Certification Standard*
    - Ceiling of $3 million
    - No cost share
    - Up to 3 awards
    - Performance period of 5 years
    - To create a national certification standard for GHP industry
    - Should increase consumer confidence, reduce potential for improperly-installed systems, and assure quality
    - Should solicit information from industry stakeholders, manufacturers, and trade organizations

Smart Grid Investment Grant Program

FOA # DE-FOA-0000058

- Letter of intent due date (required for each phase in which an applicant intends to submit an application) and application due date:
    - Phase 1: July 16, August 6
    - Phase 2: October 23, November 4
    - Phase 3: February 10, March 3
- Funding
    - $3.4 billion expected to be available
    - 2 categories to be funded:
        - Smaller projects in which the federal share is in the $300,000 to $20 million range (40% of SGIG funding)
        - Larger projects in which federal share is in the $20 million to $200 million range (60% of SGIG funding)
    - Minimum 50% cost share required
- 3 year period of performance
    - DOE expects to complete award of projects by September 30, 2010 and to make awards in October 2009, March 2010, and June 2010
    - Costs of awards must be invoiced and paid by September 30, 2015
- Eligible applicants
    - Electric power companies (investor-owned utilities, municipal utilities, public utility districts, electric cooperatives, regional organizations such as independent system operators, transmission organizations, and national-level utility organizations), state, county, local, or municipal government agencies, universities and colleges, electricity consumers singly or aggregated together (residential, commercial, industrial, and agricultural customer classes), appliance manufacturers, electrical equipment manufacturers, software providers, and commercial and information services providers, and other private companies (retail electricity suppliers, energy services companies, independent power producers, demand response services providers, metering services providers, project developers, electricity marketers, consultants)
    - Federal agencies, including power marketing administrations, TVA, and USPS are eligible in supporting roles only
    - DOE's national laboratories and FFRDCs are ineligible

- Purpose of program: to accelerate the modernization of the nation's electric transmission and distribution systems, and to promote investment in smart grid technologies, tools, and techniques which increase flexibility, functionality, interoperability, cyber-security, situational awareness, and operational efficiency; to enable measurable improvements from accelerated achievement of a modernized electric transmission and distribution system, including:
    - Reliability of the electric power system
    - Electric power system costs and peak demand
    - Consumer electricity costs, bills, and environmental impacts
    - Clean energy development and greenhouse gases
    - Economic opportunities and new jobs
- Topic areas:
    - Equipment manufacturing
    - Customer systems
    - Advanced metering infrastructure
    - Electric distribution systems
    - Electric transmission systems
    - Integrated and/or crosscutting systems
- Eligible projects are required to support or advance one or more of the smart grid functions as listed in EISA Section 1306 (d)
- For eligible investments for SGIG funds, see EISA, Section 1306 (b)
- For non-eligible investments, see EISA, Section 1306 (c)
- Visit http://www.fedconnect.net/ for additional information

ARRA – Hydroelectric Facility Modernization

FOA # DE-FOA-0000120

- Letter of intent due by July 22, 2009
- Application due August 20, 2009
- $32 million expected to be available
- 2 year period of performance
- Visit http://www.fedconnect.net/ for additional information

- Purpose: to develop, deploy, and test hydropower projects that would modernize the existing hydropower infrastructure and increase quantity and value of hydropower generation
- Focus on supporting deployment of turbines and control technologies to increase and maximize system generation at existing non-federal hydroelectric facilities
- Projects encouraged to be developed with a minimum of regulatory delay
- Should demonstrate that proposed projects increase generation by at least 5%
- Projects that require construction of new dams or diversions will not be considered

- *Subtopic A: Deployment of Hydropower*
  - Upgrades at projects > 50 MW
  - $25 million ceiling
  - 1-5 awards expected
  - $5 million - $25 million awards

- *Subtopic B: Deployment of Hydropower*
  - Upgrades at projects < 50 MW
  - $7 million ceiling
  - No floor
  - 1-5 awards
  - $2 million - $7 million awards

Clean Coal Power Initiative – Round 3

FOA # DE-FOA-0000042 (Amendment #005)

- Letter of intent due by July 24, 2009
- Application due August 24, 2009
- Applicants who accept selections from previous closing date of January 20, 2009, will not be considered under this re-opened FOA
- $1.4 billion available
- Eligible applicants: All, except for other federal agencies, federally funded Research and Development Center contractors, and non-profits as described in Section 501(c)(4) of Internal Revenue Code of 1986, lobbying after December 31, 1995
- See http://www.fedconnect.net/ for additional information.
- Objective: To demonstrate advanced coal-based technologies that capture or sequester, or put to beneficial use, CO_2 emissions
- Demonstrate at a commercial scale in a commercial setting technologies that:
    - Can achieve minimum of 50% CO_2 capture efficiency and make progress toward a target CO_2 efficiency of 90% in a gas steam containing at least 10% CO_2 by volume
    - Make progress toward capture and sequestration goal of less than 10% increase in cost of electricity for gasification systems and less than 35% for combustion and oxycombustion systems all as compared to 2008 practice
    - Capture and sequester or put to beneficial use a minimum of 300,000 tons per year of CO_2 emissions using a 30-day running average to determine if project successfully meets the CO_2 capture efficiency and the capture and sequestration or beneficial use rate requirements of FOA

ARRA – Solar Market Transformation – Solar Workforce Development

FOA # DE-FOA-0000078

- Application due by July 30, 2009
- See http://www.fedconnect.net/ for additional information

- *Topic 2 – Solar Installer Instructor Training*
  - Goal: to promote increase in the quality and availability of instruction relating to installation of PV and SHC systems
  - 2 categories of funding
    - Regional Resource & Training Providers
      - Provide training and professional development to instructors who are creating or improving existing PV or SHC installation training courses
      - Awardees will be entities that currently offer high quality training in solar installation process and possess excellent instructors and training facilities
      - Categories:
        - 1A – PV only
        - 1B – SHC only
        - 1C – PV & SHC
    - Administration of the National Consortium for Solar Installer Instructor Training
      - Primary task: to create and manage operations of National Consortium for solar installer instructor training and to coordinate activities between itself, the National Consortium, and the Regional Resource and Training Providers

ARRA – High Penetration Solar Deployment

FOA # DE-FOA-0000085

- Application due by July 30, 2009
- See http://www.fedconnect.net/ for additional information
- Must have a team approach: members of PV suppliers, integrators, and research institutions is preferred; one electric utility participation is required in all topic areas
- Cost share required, depending on topic area

- *Topic Area 1: Improved Modeling Tools Development*
  - 12 month phases, project period over 3 years
  - Development of PV performance models and their integration into existing distribution system planning and engineering analysis
  - Improved ability to model effects of high penetration solar electricity generation on electric distribution system
  - Approaches for enhanced PV performance models and should encompass new inverter models to better understand the performance of inverter designs for load flow analysis under normal and fault conditions as well as for short circuit current calculations

- *Topic Area 2: Field Verification of High-Penetration Levels of PV into the Distribution Grid*
  - 3-5 12 month phases
  - Must address modeling and approaches for field testing and validation of high-penetration levels of PV on prototypical distribution circuits and on new circuit configurations for optimized technical and economic performance

- *Topic Area 3: Modular Power Architecture*
  - One phase, 1 year performance period
  - Demonstrate that low-cost, easy-to-install modular and scalable power architecture can be deployed throughout the U.S.

- *Topic Area 4: Demonstration of PV and Energy Storage for Smart Grids*
  - One phase, 12 month completion
  - Integrate PV and energy storage into Advanced Metering Infrastructure (AMI) pilot programs

ARRA – Enhanced Geothermal Systems (EGS) Demonstration

FOA # DE-FOA-0000092

- Application due by July 30, 2009
- $90 million available
- $25 million ceiling
- 10 expected awards
- 50% cost share, but cost share as low as 25% could be considered
- Eligible applicants: Institutions of higher educations, non-profits, for-profit entities, state and local governments, Indian Tribes
- Geothermal Technologies Program (GTP) will facilitate research, development, and demonstration to establish geothermal energy as a major contributor for electricity generation
- Seeking projects in a variety of geologic formations to quantitatively demonstrate and validate stimulation techniques that successfully sustain sufficient fluid flow and heat extraction for 5-7 years that produce up to 50 MWe per year per project site/geothermal reservoir
- Applicant must provide sufficient legal documentation to demonstrate legal surface and subsurface rights necessary for stimulation and heat mining; applicant must also include NEPA EF1
- See http://www.fedconnect.net/ for additional information

Rural Energy for America Program/Renewable Energy Systems/Energy Efficiency Improvement Program

- Application due by July 31, 2009
- Grant for up to 25% of total eligible costs; ceiling of $500,000 for renewable energy systems and $250,000 for energy efficient improvements
- Eligible applicants: All agricultural producers who gain 50% or more of gross income from any agricultural operations; rural small businesses and rural electric co-ops may also be eligible
- Eligible projects: Lighting retrofits, insulation, renewable energy projects from wind, solar, biomass, geothermal, hydro-power, and hydrogen based sources
- For more information, visit http://www.rurdev.usda.gov/rbs/busp/9006grant.htm or contact your local USDA Rural Development office.

Renewable Energy Feasibility Grants

- FOA # RDBCP-09-REAP-FEASIBILITY
- Application due by July 31, 2009
- Visit http://www.rurdev.usda.gov/ for additional information
- Maximum $50,000 or 25% of eligible project cost
- Must be submitted as stand-alone project
- Eligible applicants: Agricultural producers and rural small businesses
- Study for a renewable energy system:
    - For purchase, installation, expansion, or improvement of renewable energy system
    - Located in rural area
    - For technology that is pre-commercial or commercially available

ARRA – Carbon Capture & Sequestration from Industrial Sources and Innovative Concepts for Beneficial CO_2

FOA # DE-FOA-0000015

- Application due by August 7, 2009
- Eligible applicants: all, except other federal agencies, federally-funded Research & Development Center Contractors, and nonprofits, as described in 501(c)(4) of Internal Revenue Code of 1986 that engaged in lobbying activities after 12/31/95
- View http://www.fedconnnect.net/ for additional information.

- *Area 1: Large-Scale Industrial CCS Projects from Industrial Sources*
    - Demonstrate advanced technologies that capture and sequester carbon dioxide emissions from industrial sources into underground formations
    - Plants with electric power output greater than 50% of total energy output that operate on more than 55% coal as feedstock are ineligible

- *Area 2: Innovative Concepts for Beneficial CO_2 Use*
    - Demonstrate innovative concepts fro beneficial CO_2 use, including CO_2 mineralization to carbonates directly through conversion of CO_2 in flue gas; use of CO_2 from power plants or industrial applications to grow algae/biomass; conversion of CO_2 to fuels and chemicals

ARRA – Solid-State Lighting Core – Round VI

FOA # DE-FOA-0000082

- Application due by August 10, 2009
- $8 million expected to be available
- 5-10 awards expected
- DOE anticipates awards won't exceed $600,000 (DOE share) per year for up to 3 years
- No floor or ceiling
- 1-3 year period of performance
- Eligible applicants: all domestic entities but federal agencies, FFRDC contractors, and nonprofits as described in Section 501(c)(4) in IRC of 1986 that engaged in lobbying after 12/31/95
- 20% cost share of total allowable cost of project
- Visit http://www.fedconnect.net/ for additional information about each area of interest

- *Area 1: Internal Quantum Efficiency (IQE)*
- *Area 2: Phosphors and Conversion Materials*
- *Area 3: Thermal Components Research*
- *Area 4: System Reliability Methods*
- *Area 5: Optical Component Manufacturers*
- *Area 6: Novel Device Architectures*
- *Area 7: High Efficiency OLED Materials*
- *Area 8: OLED Electrodes*
- *Area 9: OLED and Encapsulation Fabrication*

ARRA – Geologic Sequestration Training & Research

FOA # DE-FOA-0000032

- Application due by August 11, 2009
- $12,930,000 expected to be available
    - $7,930,000 / 26 awards for all universities, colleges, and college-affiliated research institutions
    - $5 million / 16 awards for Historically Black Colleges and Universities (HBCU) and other minority institutions (OMI)
- $100,000 floor; $300,000 ceiling
- 3 year period of performance
- Cost share encouraged, but not required

- Objective: For universities, colleges, and college-affiliated research institutions and HBCUs and OMIs to provide training opportunities for graduate and undergraduate students that will provide human capital and skills required for implementing and deploying carbon capture and storage (CCS) technologies

- *Area of Interest 1: Simulation and Risk Assessment*
    - Development of models that include full coupling of geochemical processes, geomechanical processes, and heat processes with fluid flow; improved ability to forecast CO_2 behavior and ultimate fate in the subsurface; development and application of process-based risk assessment models for determining quantitative risks and predicting quantitative impacts at field project sites; development of probability distributions for different risk pathways

- *Area of Interest 2: Monitoring, Verification, and Accounting (MVA)*
    - Research in improving quantification, sensitivity, and resolution at low costs in MVA; extending capacity of MVA tool to quantify and resolve at high sensitivity over an extended region or spatial scale; increasing accountability of MVA protocols by improving sensitivity and increasing the application of current monitoring tools; improving the reliability of next-generation detection and sensing technologies; modifying and advancing CO_2 accounting protocols to demonstrate containment of CO_2 in the storage formations; quantifying the mass of sequestered CO_2 over its volume and as a function of time; investigating and improving technologies and protocols aimed at assessing the integrity of caprock formations; pinpointing potential leakage pathways
    - Technology development needed in geophysics, geochemistry, mitigation strategies

- *Area of Interest 3: Well Completion, Stimulation, & Integrity*
    - Research needed for reservoir stimulation for injection of CO_2, microhole drilling technologies utilized for low cost characterization opportunities, and to drill relatively shallow injection and or monitoring wells; casing and cements that perform effectively under CO_2 injection and storage; underbalanced drilling that may not damage the target formation

- *Area of Interest 4*
    - *Capture & Transport*
        - *Pipeline Transport*
            - Research in areas of pipeline transport that permits the safe and economical transport of CO_2 containing impurities in a secure and environmentally sound manner
        - *Pre-Combustion Capture*
            - Research in high temperature, high pressure membranes, high efficiency solvents, solid sorbents with commercially-relevant separation capacity and regenerability, and advanced separation devices for separating CO_2 or H_2 from syngas
    - *Post-Combustion Capture*
        - Research needed on post-combustion capture systems that use membranes, solvents, solid sorbents, or other approaches that enable efficient capture of CO_2 from flue gas
        - *Oxy-Combustion Capture*
            - Research to optimize oxy-combustion burners to that flue gas recirculation is minimized and boiler efficiency is maximized

ARRA – Resource Assessment & Interconnection Level Transmission Analysis & Planning

FOA # DE-FOA-0000068

- Application due by August 14, 2009
- Estimated funding up to $60 million; approximately 6 awards
- Period of performance for 3-5 years
- Eligibility: All domestic entities except DOE/NNSA National Laboratory contractors, other federal agencies, non-DOE Federally Funded Research and Development Center contractors, and non-profits as described in 501(c)(4) of Internal Revenue Code of 1986 that engaged in lobbying after December 31, 1995.
- Visit http://www.fedconnect.net/ for additional information
- Objective: to facilitate development or strengthening of capabilities in each of 3 interconnections serving lower 48 states, to prepare analyses of transmission requirements under a broad range of alternative futures and develop long term interconnection-wide transmission expansion plans

- *Topic A: Interconnection-Level Analysis & Planning*
    - Work to be performed must cover entire interconnection
    - Analyses and planning must be done in transparent manner, open to participation by state and federal officials, representatives from ISOs, RTOs, utilities, and relevant stakeholder bodies or NGOs
    - Must establish a multi-constituency steering group; 1/3 of members shall be state officials
    - Modeling tools and databases used and developed will be public, as will all events and meetings of study groups
    - Work performed shall give appropriate attention to merits of alternative configurations of the interconnection's Extra High Voltage (EHV) AC & DC network
    - Work shall give special attention to technological uncertainties that could have major effects on transmission requirements, such as the prospects for offshore wind generation, ocean energy, batteries for plug-in electric vehicles, on-site photovoltaic, carbon capture and sequestration, and advanced nuclear technologies
    - May include supporting analyses or topics such as variable generation integration studies, training of utility system planners and operators on variable generation and interconnection planning, reliability analyses of alternate large transmission configurations

- Long term transmission plans shall satisfy all reliability standards that have been approved by the Federal Energy Regulatory Commission. Must achieve the following objectives:
    - Consider all available technologies for electricity generation, energy storage, transmission, end-use energy efficiency, demand resources, and management of transmission and distribution-level facilities
    - Satisfy all state and federal requirements for renewable energy goals, energy efficiency goals, and goals for reducing greenhouse gases
    - Minimize overall long-term impacts of electricity supply activities on environment
    - Provide a path for efficient grid development
- First version of interconnection-level plan(s) to be delivered to DOE by June 30, 2011; updated plan to be delivered by June 30, 2013

- *Topic B: Cooperation Among States on Electric Resource Planning and Priorities*
    - Purpose: to facilitate dialogue and collaboration among states in respective interconnections and enable them to develop more consistent and coordinated input and guidance for regional and interconnection-level analyses and planning to be done under Topic A
    - 3 interconnections – Western, Eastern, & Texan; see FOA for Western & Texan information
    - *Cooperation Among States in Eastern Interconnection on Electric Resource Planning and Priorities*
        - Identify Eastern energy zones of interest for low or no carbon electricity generation
        - Propose studies on key issues related to reliable integration of variable renewable into Eastern interconnection, studies on availability of baseload renewable, and other low carbon resources
        - Develop other inputs as needed to go into the interconnection-level analyses prepared under Topic A
        - Provide insight into economic and environmental implications of the alternative electricity futures and their associated transmission requirements developed for the Eastern Interconnection under Topic A
        - Demonstrate (and develop if necessary) a process for reaching decisions and consensus appropriate for an interconnection-wide entity representing all states and provinces in Eastern Interconnection to participate in development and updating of long-term interconnection-level plan under Topic A

Advancing Public Health Protection through Water Infrastructure Sustainability

FOA # EPA-G2009-STAR-F1

- Application due by August 17, 2009
- Visit http://www.epa.gov/ for additional information
- Up to $6 million available, with awards ranging from $300,000-$600,000
- Eligible applicants: public and private non-profits, institutions of higher education, and hospitals in the United States, state and local governments
- Focus of grant: Improving the effectiveness of water infrastructure for protecting public health. Projects should demonstrate an integrated, multi-disciplinary approach that leads to advances in design, operation, and management of water infrastructure and should tie advances to public health protection in conjunction with improving water efficiency and reducing energy requirements

ARRA – Solid State Lighting Product Development – Round IV

FOA # DE-FOA-0000055

- Application due by August 17, 2009
- $11.5 million expected to be available
- No floor or ceiling
- 3-7 awards expected
- Awards not expected to exceed $900,000 (total DOE share per award) per year up to 2 years for areas 1-5
- Awards not expected to exceed $400,000 (total DOE share per award) per year up to 2 years for area 6
- Eligible applicants: All domestic entities but other federal agencies, FFRDC contractors, and non-profits as described in Section 501(c)(4) of IRC of 1986 that engaged in lobbying after 12/31/95
- 20% cost share of total allowable cost

- Objective: Product development of general illumination SSL sources, luminaires, and enabling products
- Seeks to advance and promote the collaborative atmosphere of the L R&D SSL Program to identify potential product concepts and incorporate into product supportive technologies that are novel or that fill technology voids or that represent a technological advancement of SSL Products

- *Area of Interest 1: LED Luminaire(s) for General Illumination*
    - Shall include the LED light source(s), the driver and electronics, fixture or optics for control of light distribution
    - Designs shall minimize thermal resistance of the packaged LED or LED array to the luminaire and from the luminaire to the ambient environment
    - Emphasis given to efficiency, optical performance of the delivered light, and cost-effective designs

- *Area of Interest 2: OLED Luminaire(s) for General Illumination*
    - Candidate OLED (organic LED) luminaire designed to incorporate and take maximum benefit of using LEDs; efficacy, uniformly distributed emission, and unique form factor
    - Completely integrate all aspects of OLED-based luminaire design, including thermal, mechanical, optical, and electrical into a cost-effective, long life, energy saving, and marketable luminaire

- *Area 3: High Efficiency LEDs or Arrays*
    - Fund development of high efficiency, high flux, packaged LED devices, arrays, or modules, possibly incorporating multiple LEDs to be used for general illumination
    - Expected products to be developed: LED lamps with improved internal quantical efficiency (IQE) at wavelengths suitable for production of white light or LED arrays otherwise suitable for general illumination

- *Area 4: Phosphors*
    - Development of high efficiency phosphors or other materials, which optimize white light production in high brightness phosphor-converted light emitting diodes (pcLEDs), including spectrum, color uniformity, color maintenance, thermal sensitivity, and stability
    - Applicants will be required to demonstrate superior performance of proposed products using lab-scale demonstration with solid-state devices that are state of the art

- *Area 5: OLED Substrates*
    - Demonstration of an alternative substrate material that is low cost, exhibits reduced water, and oxygen permeability, and enables robust device operation at the high current densities required for SSL applications
    - Other considerations: processing and operational stability, weight, optical and barrier properties

- *Area 6: Off-Grid Applications*
    - Applications sought for novel off-grid products that use a combination of SSL, leading PV devices, and batteries, or any other combination of renewable energy and storage
    - Applications may include architectural façade lighting, remote outdoor lighting, marine applications, security illumination, emergency or portable lighting

ARRA – Advanced Energy Efficient Building Technologies

FOA # DE-FOA-0000115

- Application due by August 18, 2009
- $25 million - $75 million expected to be available
- 45-90 awards
- Awards in $250,000 - $2 million range (DOE share)
- 1-3 year period of performance
- Cost share:
    - 20% cost share for R&D projects
        - Will accept not less than 10% for academic institutions, non-profits, state, and local governments
    - 50% for demonstration and commercial application projects
        - Will accept not less than 25% for private industry recipients and not less than 10% for academic institutions and non-profits
- FOA's goals and priorities:
    - Science and discovery
    - Clean, secure energy
    - Economic prosperity
    - National security and legacy
    - Climate change
- Each application shall address a specific technical subtopic within a particular area of interest

- *Area of Interest 1: Advanced Building Control Strategies, Communications, and Information Technologies for Netzero Energy Buildings*
    - *Technical Subtopic 1.1: Advanced Building Control Strategies and Interfaces*
    - *Technical Subtopic 1.2: Advanced Whole-Building Control Systems and Information Technology*
    - *Technical Subtopic 1.3: Advanced Component Level Software and Hardware Development*
    - *Technical Subtopic 1.4: Energy Control and Optimization Algorithms and Tools*

- *Area of Interest 2: Analysis, Design, and Technical Tools*
    - *Technical Subtopic 2.1: Systems Engineering Tools for Very-Low Energy Buildings*
    - *Technical Subtopic 2.2: Scientific and Engineering Foundations for Designing and Operating Very Low Energy Buildings*
    - *Technical Subtopic 2.3: Misc. Electric Load (MEL) Prediction and Modeling*

- *Area of Interest 3: Building Envelope and Windows*
    - *Technical Subtopic 3.1: Window and Daylighting Technology Development*
    - *Technical Subtopic 3.2: Envelope Technology Development*
    - *Technical Subtopic 3.3: Building Envelope and Window Case Studies and Demonstration*
        - 50% cost share
    - *Technical Subtopic 3.4: Production Engineering for R5 and Higher Windows*
        - 50% cost share

- *Area of Interest 4: Residential and Commercial HVAC and Crosscutting Air Conditioning and Refrigeration Research*
    - *Technical Subtopic 4.1: Residential HVAC*
    - *Technical Subtopic 4.2: Commercial HVAC*
    - *Technical Subtopic 4.3: Crosscutting AC and Refrigeration Research*

- *Area of Interest 5: Water Heating, Residential, and Commercial Appliances and MELs*
    - *Technical Subtopic 5.1: Water Heating*
    - *Technical Subtopic 5.2: Residential Appliances*
    - *Technical Subtopic 5.3: Commercial Appliances*
    - *Technical Subtopic 5.4: Misc. Electric Load Reduction*

- *Area of Interest 6: Solar Heating and Cooling*
    - *Technical Subtopic 6.1: Residential Space Heating and Cooling (SHC) R&D*
    - *Technical Subtopic 6.2: Commercial SHC R&D*

ARRA – Solid State Lighting U.S. Manufacturing – Round I

FOA # DE-FOA-0000057

- Application due by August 24, 2009
- $22 million expected to be available
- 5-10 awards expected
- Awards won't exceed $4 million of DOE share (exclusive of recipient share)
- No floor or ceiling
- Cost share of 50% of total allowable cost of project
    - Will accept cost share of not less than 25% for private industry recipients and not less than 10% for academic institutions, non-profits, Indian tribes or Tribal Energy Resource Development Organizations, and state and local governments
- Eligibility: All domestic entities but other federal agencies, FFRDC contractors, and nonprofits as described in Section 501(c)(4) of IRC of 1986 that engaged in lobbying after 12/31/95
- See http://www.fedconnect.net/ for additional information

- Objective: To achieve cost reduction of solid-state lighting for general illumination through improvements in manufacturing equipment, processes, or techniques
- Secondary objective: To maintain, in case of LEDs, or establish, in the case of organic light emitting diodes (OLEDs), the manufacturing and technology base within U.S.

- *Area of Interest 1: Epitaxial Growth Tools & Processes*
    - Improvements to epitaxial growth yield, materials, and electrical efficiency of growth process, growth repeatability, growth monitoring tools, modeling of the growth dynamics, automation of the growth process, and the cost of ownership of the crystal growth tool
    - Improvements shall not come at the expense of performance

- *Area of Interest 2: LED Chip Manufacturing*
    - Research sought to support manufacturing or low cost, high efficacy LED chips for general illumination
    - Objective: to reduce manufacturing costs through developments in semiconductor water processing equipment and process optimization
    - Research may include development of well-designed, standardized, highly throughput, highly automated, and reliable processing equipment
    - Equipment should incorporate flexible water handling to cope with different substrate types

- *Area of Interest 3: Automated LED Packaging*
    - Research to develop and demonstrate improved automated methods for the assembly and packing of phosphor-LED
    - Objective: to improve uniformity and consistency of product performance, reduce labor content per good unit produced, and improve capital productivity and throughput as measured against existing methods
    - Research should reduce or eliminate the need for product binning based on a distribution of performance parameters and demonstrate a significant impact on quality and cost of the packaged LEDs
    - Research may include robotic equipment design, process flow modeling, development of in-process automated test methods, product and material handling innovations, and improved design for manufacturing

- *Area 4: LED Luminaire Manufacturing*
    - Research to develop automated assembly and test equipment and efficient manufacturing processes for integrated luminaires
    - Focus on integrated luminaire that includes the LED light source(s), the driver, fixture, or optics for control of light distribution, and thermal management
    - Acceptable LED light sources are bare chips or packaged LED devices
    - Ideally, the proposed luminaires should be compatible with electronic dimming and may incorporate other smart controls

- *Area 5: Production of OLED Lighting Prototypes*
    - Research to pursue development of manufacturing processes and facilities to enable limited production of OLED devises with performance close to 2012 targets of SSL Multi-Year Program Plan (MYPP)

- *Area 6: Paths to High-Volume Manufacturing of OLED Devices*
    - Research for development of innovative manufacturing systems that are appropriate for OLED general-illumination lighting applications
    - Emphasis on system integration
    - Research shall include the identification and exploration of the critical fabrication integration issues

ARRA – Building America Energy Efficient Housing Partnerships

FOA # DE-FOA-0000099

- Application due by August 24, 2009
- $2.5 million floor; no ceiling
- Eligible applicants: All domestic entities, but federal agencies, FFRDC contractors, and nonprofits as described in section 501(c)(4) of IRC of 1986 that engaged in lobbying after 12/31/95
- 20% cost share of total allowable cost of project
- Visit http://www.fedconnect.net/ for additional information

- *Area of Interest 1: Building America Teams*
  - Industry teams to continue partnerships Building America has established to implement research and technical support programs for new and existing homes
  - $10 million expected to be available
  - 2-3 awards expected
  - Up to $5 million per year for up to 5 years
  - 5 year period of performance

- *Area o f Interest 2: Building America Retrofit Teams*
  - Industry teams to stimulate the existing home retrofit market through research and technical support to increase the efficiency gains and reduce the cost of retrofits
  - $15 million expected to be available
  - 2-4 awards expected
  - Up to $5 million per two year award
  - 2 year period of performance

Topical Collaborations in Nuclear Theory

Funding Opportunity Announcement # DE-PS02-09ER09-24

- Application due by September 1, 2009
- See http://www.grants.gov/ for additional information
- Topical collaborations are fixed-term, multi-institution collaborations established to investigate a specific topic in nuclear physics of special interest to the community
- See FOA for list of 17 areas of interest
- Anticipated $6 million available over 5 years, starting in FY 2010
- Anticipated that 2-3 topical collaborations will be established for a period of no more than 5 years
- Collaboration expected to be supported at $300,000-$500,000 per year
- Cost sharing not required
- Joint funding and bridging positions are anticipated and will be considered favorably (universities, non-profit organizations, FFRDCs, including DOE National Laboratories)
- Eligible applicants: All domestic entities but federal agencies, FFRDC contactors, and non-profits as described in 501(c)(4) of Internal Revenue Code of 1986 that engaged in lobbying after 12/31/95

ARRA – Training Program Development for Commercial Building Equipment Technicians, Building Operators, and Energy Commissioning Agents/Auditors

FOA # DE-FOA-0000118

- Application due by September 1, 2009
- $7.5 million expected to be available
- 10-30 awards expected
- No floor or ceiling
- 2 year period of performance
- Cost share not required but encouraged
- Eligible applicants: all entities except federal agencies, FFRDC contractors, and nonprofits as described in 501(c)(4) of IRC of 1986 that engaged in lobbying after 12/31/95
- Visit http://www.fedconnect.net/ for additional information

- Objective: Projects that focus on developing training programs for building specialists
- FOA not intended for actual deployment of training program(s) or training personnel, but for development of training program(s) and commercial planning
- Applicant must propose an activity under each task:
    - Project management plan
    - Integration plan
    - Curricula deficiency/developmental needs analysis
        - Energy efficiency knowledge gaps in existing programs
    - Curricula development
    - Consolidated training material
    - Certification/accreditation plan
    - Commercialization and sustainability plan
- See FOA for training program requirements

- *Area 1: Training Programs for Commercial Building Equipment Technicians*
    - Applications sought for development of training programs for commercial building equipment technicians
    - For new and existing buildings
    - Include combination of classroom, online, and on-site training

- *Area 2: Training Programs for Commercial Building Operators*
    - Projects that will help achieve the goal of brining existing buildings up to optimal energy performance level and ensuring that new buildings maintain the expected optimal level of performance

- *Area 3: Training Programs for Commercial Building Energy Commissioning Agents/Auditors*
    - Goal: that energy commissioning agents and auditors participating in programs learn how to best operate commercial buildings

ARRA – Community Renewable Energy Deployment

FOA # DE-FOA-0000122

- Application due by September 3, 2009
- $21.45 million expected to be available
- $21.45 million ceiling; $5 million floor
- 50% cost share required
- 1-4 expected awards at $5 million - $7 million price range
- 3 year period of performance
- Eligible applicants: State and local governments, Indian tribes, and Tribal Energy Resource Development organizations or groups
- Purpose: to improve knowledge and to promote acceleration of market adoption of renewable energy technologies
- Eligible technologies: electric or thermal energy generated from solar, wind, biomass, landfill gas, ocean (tidal, wave, current, & thermal), geothermal, or new hydroelectric generation capacity achieved from increased efficiency or additions of new capacity at an existing hydroelectric project, as defined in EPAct 2005

ARRA – Energy Training Partnership Grants

FOA # SGA/DFA PY 08-18

- Application due by September 4, 2009
- Webinar on July 13 at http://www.workforce3one.org/
- $100 million expected available for 20-30 projects at $2-$5 million/project
    - Approximately $25 million of total funds available will be reserved for projects in communities impacted by automotive-related restructuring
- Visit http://www.grants.gov/ for additional information
- Grant for training and placement services in energy efficiency and renewable energy industries for workers affected by national energy and environmental policy and individuals in need of updated training related to energy efficiency and renewable energy industries
- Focus on connecting target populations, including automobile and automobile-related industries affected by significant restructurings
- Training for careers in:
    - Energy efficient building, construction, and retrofit industries
    - Renewable electric power industry
    - Energy efficient and advanced drive train vehicle industry
    - Biofuels industry
    - Deconstruction and materials use industry
    - Energy efficiency assessment industry serving residential, commercial, or industrial sectors
    - Manufacturers that produce sustainable products using environmentally sustainable processes and materials
- Eligible entities:
    - Private non-profits that must apply in one of two categories:
        - National Labor Management Organizations with local networks
            - Examples: Training fund, training trust fund, or education trust fund with joint participation from employers and labor organizations on its executive board (or comparable governing body); a formalized agreement must be made between the employer and labor organization to operate joint program(s) in multiple sites across the country through state, local, or regional networks affiliated with the non-profit entity
        - Statewide or local non-profit partnerships
            - Local or statewide non-profits with joint partnership of labor organizations, employers, or industry organizations, Workforce Investment Boards
    - Must work with labor organizations, employers, and Workforce Investment Boards

- Must propose strategic partnerships with the following:
    - Labor organizations
    - Employers and industry organizations
    - Local workforce investment boards (which are ineligible applicants, but must be included in the application)
- Suggested partners include:
    - Education and training community
    - Federal partners such as DOL/ETA's Office of Apprenticeship
    - State partners, including State energy offices, weatherization offices, environmental agencies, utility boards
    - Faith-based and community organizations
- Partnerships must incorporate training activities that:
    - Address skills needed in targeted industries
    - Support participants' career advancement
    - Take place at times and locations that are convenient and easily accessible
    - As appropriate, include paid work experience activities that allow participants to learn occupational skills on the job
    - Integrate training activities with supportive services to help participants overcome barriers to employment, and as appropriate, result in pre-existing industry recognized degree or certificate
- Proposed activities include:
    - Occupational training, on-the-job and customized training, and developing registered apprenticeship and pre-apprenticeship programs in energy efficiency and renewable energy industries
    - Supportive services that will allow individuals to participate in training
- May propose projects using a small part of grant funds on activities that support worker training and placement such as:
    - Instructor education and/or staff training that will deliver and administer registered apprenticeship programs or other training and education programs that lead to employment
    - Where appropriate materials don't exist for the following, develop or modify:
        - Curricula for training
        - Apprenticeship guidelines
        - Industry-recognized degrees or certificates

ARRA – Systems Level Technology Development, Integration, and Demonstration for Efficient Class 8 Trucks (SuperTruck) and Advanced Technology Powertrains for Light-Duty Vehicles

FOA # DE-FOA-0000079

- Application due by September 9, 2009
- Eligible applicants: All, except federal agencies, FFRDC contractors, non-profits as described in 501(c)(4) of Internal Revenue Code of 1986 that engaged in lobbying after December 31, 1995
- See http://www.fedconnect.net/ for additional information

- *Area 1: Systems Level Technology Development, Integration, and Demonstration for Efficient Class 8 Trucks*
    - Develop and demonstrate a 50% total increase in vehicle freight efficiency measured in ton-miles per gallon
    - At least 20% of improvement through the development of heavy duty diesel-engine capable of achieving 50% Brake Thermal Efficiency (BTE) on a dynamometer under a load representative of a level road at 65 mph
    - Identify key pathways to achieving long-term goal of developing a 55% efficient (BTE) heavy duty diesel engine; must meet 2010 emission standards and be commercially viable
    - $90 million - $160 million available; 3-5 expected awards
    - Ceiling: $80 million (DOE share $40 million)
    - Floor: $40 million (DOE share $20 million)

- *Area 2: Advanced Technology Powertrains for Light Duty Vehicles*
    - Goal: To accelerate development of a cost-competitive engine and powertrain systems for light-duty vehicles capable of attaining at least 25% fuel economy improvement for gasoline fueled vehicles and at least 40% fuel economy for diesel fueled vehicles while meeting future emissions standards
    - $25 million - $80 million available; 3-6 expected awards
    - Ceiling: $30 million (DOE share $15 million)
    - Floor: $4 million (DOE share $2 million)

ARRA – Development of Algal/Advanced Biofuels Consortia

FOA # DE-FOA-0000123

- Application due by September 14, 2009
- Purpose: to increase viability and deployment of renewable energy technologies, spurring the creation of domestic bio-industry, and resulting in a dramatic reduction in dependence of imported oil
- Application required from a consortia to involve specific scientific, engineering, system design, analysis, and project management disciplines; consortia should include mix of U.S. industry, academia, and government and/or non-governmental laboratories
- $85 million expected to be available
- No floor
- Ceiling
    - Topic Area 1 (Algae Consortium/Consortia): $50 million
    - Topic Area 2 (Advanced Biofuels Consortium): $35 million
- Eligible applicants in consortia
    - As lead: Institutions of higher education, non-profit or for-profit entities, state and local governments, Indian Tribes and Tribal Energy Resource Development Organizations or Groups, and DOE/NNSA National Laboratory Contractors (as defined in EPAct of 2005)
    - Consortia members can include any of the above-mentioned entities, other federal agencies, and non-DOE Federally Funded Research & Development Center (FFRDC) Contractors
- Minimum cost share of 20%
    - As low as 10% will be considered, and could be waved for Indian Tribes, with justification
- Visit http://www.fedconnect.net/ for additional information

- *Topic Area 1: Algal Biofuels Consortium/Consortia*
    - May address one or more areas of interest, in whole or in part
    - *Area of Interest 1: Feedstock Supply – Strain Development and Cultivation*
        - To investigate and develop a variety of algal strains from different environments (marine, freshwater, brackish/saline, wastewater)
    - *Area of Interest 2: Feedstock Logistics – Harvesting & Extraction*
        - To include harvesting, dewatering, and extraction of fuel producing lipids and carbohydrates from algae
    - *Area of Interest 3: Conversion/Production – Accumulation of Intermediate and Synthesis of Fuels and Co-Products*
        - To investigate conversion technologies capable of producing biofuels from whole algae

- *Topic Area 2: Advanced Infrastructure Compatible Biofuels Consortium*
    - Projects to develop biomass-based alternative fuels that are capable of being "drop-in" replacements for hydrocarbon-based fuels
    - Goal: to develop new and innovative approaches for the conversion of biomass to advanced biofuels that are infrastructure compatible, going beyond current technical pathways for producing hydrocarbons from biomass feedstock
    - Anticipated that 4-6 strategies will be investigated
    - Per U.S. Dept. of Energy, it is "highly desirable" that the technology proposed for development by the Advanced Biofuels Consortium be advanced to stage where it is ready to undergo Process Development Unit (PDU) scale testing by the end of year three

ARRA – Pathways Out of Poverty

FOA # SGA/DFA PY 08-19

- Application due by September 29, 2009
- Webinar on July 14, 2009 at http://www.workforce3one.org/
- $150 million expected available
    - $3 million - $8 million available for national grantees (see description below)
    - $2 million - $4 million available for local grantees
- Cost share is not required, but leveraged resources are strongly encouraged
- Visit http://www.grants.gov/ for additional information
- 2 types of applicants to be funded:
    - National non-profits with networks of local affiliates or coalition members
        - Considered national if:
            - Deliver services through networks of local affiliates, coalition members, or other established partners like faith-based organizations
            - These partners have the ability to provide services in 4 or more states
            - Must serve communities located in at least 2 states, with a total of 3-7 communities served
            - Will be required to fund sub-grants or sub-contracts in each communities
    - Local entities
        - Considered local if:
            - Public organization such as community colleges or workforce development boards or private non-profits whose area is limited to a single sub-state area
            - Must propose a project that serves a single community
- Target population are workers affected by significant auto industry restructuring
- Grant to prepare those individuals for careers in:
    - Energy efficient building construction and retrofit industries
    - Renewable electric power industries
    - Energy efficient and advanced drive train vehicle industry
    - Biofuels
    - Deconstruction and materials use
    - Energy efficient assessment industry serving residential, commercial, or industrial sectors
    - Manufacturers that produce sustainable products using environmentally sustainable processes and materials
- Applicants may propose strategies that train individuals for the following occupations: transportation, green construction, environmental protection, sustainable agriculture (including healthy food production), forestry, and recycling and waste reduction

- Eligible applicants
    - Must have experience serving at least one of the following groups:
        - Unemployed individuals
        - High school dropouts
        - Individuals with criminal records
        - Disadvantaged individuals within areas of high poverty
- Must propose strategic partnerships (1 entity from each of the 5 categories)
    - Non-profits that have direct access to targeted populations
    - Public workforce investment system
    - Education and training community
    - Public and private employers and industry-related organizations
    - Labor organizations
- Strongly encouraged to involve:
    - Public housing agencies
    - Community Action Agencies implementing DOE's Weatherization Assistance Program
    - Organizations implementing ARRA funds that will create or support jobs in energy efficiency or renewable energy industries
    - National, state, or local foundations that focus on assisting participants served through project
    - State and local social service agencies that provide services to those individuals
- Allowable activities include:
    - Classroom occupational training
    - On-the-job training activities
    - Registered apprenticeship and pre-apprenticeship programs
    - Internships
    - Customized training
    - Basic skills – adult basic education, ESL, job readiness
    - Job search and placement services
    - Case management services

ARRA – Local Energy Assurance Planning (LEAD) Initiative

FOA # DE-FOA-0000098

- Application due by October 8, 2009
- $10.5 million expected to be available
- $60,000 floor; $300,000 ceiling
- 50 expected awards, based on population
- No cost share
- Objectives
    1. To strengthen and expand local government energy assurance planning and resiliency
    2. To reduce impacts from energy supply disruptions
    3. To create jobs
- Focus on building local energy assurance capability to allow cities to better coordinate and communicate state-wide, regionally, and with one another on energy security and reliability
- See FOA at http://www.fedconnect.net/ for considerations while proposing projects
- Eligible applicant is a U.S. city that is eligible if:
    - City government is included in latest U.S. Census of Governments as a currently incorporated government
    - City government has governance structure with elected official and governing body
    - City government has authority to implement eligible activities under FOA

Green Your School

- NOT a federal government opportunity, but offered through the Student Conservation Association
- Visit http://www.thesca.org/green-your-school/ for additional information
- 3 awards
- Projects must have been started after August 1, 2008
- Submission begins April 1, 2009
- Submission ends October 9, 2009
- Winners to be announced November 15, 2009
- Project requirements
    - Must be completed by a student
    - Has or will improve the environmental health of the school
    - Is sustainable
    - Is of high quality
    - Has engaged the community

Solar America Cities – Technical Outreach

FOA # DE-FOA-0000086

- Application due by October 15, 2009
- Expected $10.5 million to be available, allocated in phases over five years
- $6 million ceiling for phase 1; $500,000 floor
- DOE expects one award, but may consider multiple awards
- Eligible applicants include all U.S. domestic entities except for FFRDC contractors, and non-profits as described in Internal Revenue Code of 1986 that engaged in lobbying activities after 12/31/95
- Cost sharing is not required
- Visit http://www.fedconnect.net/ for additional information
- Suggested reading: *Solar Powering Your Community: A Guide for Local Governments* (http://www.solaramericacities.energy.gov/resources)
- DOE intends to select 1 or more partner organizations to provide a maximum number of local governments with actionable information that will enable them to accelerate solar energy deployment
- The recipient will proactively address the solar-related information needs of significant local markets and provide a mechanism by which local governments can receive and share information on solar energy
- A comprehensive approach is needed to include solar regulations, financial incentives, workforce training, and utility and community engagement
- Potential activities include:
    - Working to develop sets of solar-related information most relevant to local governments
    - Provide strategic information on solar energy to local governments and stakeholders
    - Create effective forums for sharing lessons and best practices developed by DOE's 25 Solar America Cities with other local governments
    - Targeted presentations for local governments

Baseload Concentrating Solar Power Generation

FOA # DE-FOA-0000104

- Application due by October 15, 2009
- $15 million expected to be available in Fiscal Year 2010 and $19.5 million - $37.5 million to be available in FY 2011 – FY 2014
- Ceiling based on topic and phase; no floor
- Eligible applicants: higher education institutions, non- and for-profit entities, state and local governments, Indian Tribes or Tribal Energy Resource Development Organizations, and consortia consisting of any of the above entities
- Visit http://www.fedconnect.net/ for additional information
- Objective: To develop and evaluate concentrating solar power (CSP) components and/or systems that could lead to development of utility-scale baseload CSP power plants with a capacity factor of 75% capable of generating electricity at costs competitive with fossil-fired generators, and estimated 8-9 cents/kWh adjusted for real 2009 dollars

- *Topic 1: Research & Development (R&D) Concept and Component Feasibility Studies*
    - Research one or more approaches to achieving the baseload CSP power generation through novel concepts or advance in key system components

- *Topic 2: Baseload CSP System Study*
    - Applicants will have a specific CSP system approach for which they propose to perform a feasibility analysis, engineering design, and prototype testing